

SUBJECT INDEX

- Abstracts, committee report, 537
- Algae, control by copper sulphate on basin walls, 88
- Alum, rate of solution, 426
- American Water Works Association,
 - abstracts committee report, 537
 - annual convention, 550
 - constitutional amendments, 533
 - Council on Standardization, 535
 - finance committee's report, 448
 - publication committee's report, 454
 - secretary's report, 456
 - society affairs, 119, 283, 461, 550
 - treasurer's report, 539
- Atlanta, Ga., meters, multiple-family houses, 15
- B. coli* differentiation tests, eosin-methylene blue agar, 151
- Bloomington, Ind., impounded water, 407
- Brass goods, standardization, 48
- Cast iron pipe, committee report on revision of specifications, 654
 - Pont-a-Mousson, 165
- Charleston, S. C., cleaning water mains, 659
- Chicago, Ill., water works, 402
- Chisholm, Minn., iron range water system, 55
- Chlorine absorption tests in water, 603
- Chlorination, tastes and odors, 603
- Cleaning water mains, 659
- Cleveland, Ohio, division pumping station and its operation, 433
 - municipal steam heating system, 559
- Coal shortage, relief, 1
- Colloid chemistry, filter-pressing of sewage sludge, 486
 - water purification, 571
- Committee reports, abstracts, 537
 - finance, 448
 - official standards of water analysis, 532
 - private fire protection services, minority report, 218
 - publication, 454
 - revision of cast iron pipe specifications, 654
- Committee reports, standard meter specifications, 273
 - standardization, 535
- Copper sulphate, control of algae on basin walls, 88
- Corrosion, iron and steel pipes, 630
- Council Grove, Kan., water works, 91
- Council on Standardization, 535
- Crustacea difficulties in filters, 530
- Detroit, Mich., water waste, 583, 672
- Eastbourne, England, damage of wells by sea water, 71
- East Jersey, water company meters, multiple-family houses, 6
- Electrolysis, water mains, 116, 630
- Eosin-methylene blue agar, *b. coli* tests, 151
- Evanston, Ill., filtration plant, 442
- Extensions of water mains, 644, 645, 646, 648
- Filters, (filtration), application of hydrogen-ion concentration, 397
 - crustacea difficulties, 522
 - Evanston, Ill., 442
 - licensing operators New Jersey, 362
 - operator as scientist, 359
 - state versus local viewpoint, on control, 356
 - Whiting, Ind., 442
- Filter-pressing, sewage sludge, colloid chemistry, 486
- Finance, Committee report, 448
- Fire protection services, private, minority committee report, 218
- Greenville, Tenn., water borne typhoid, 132
- Ground-water supplies, depletion, 167
 - self-cleansing collecting system, 147
- Hydrogen-ion concentration, application to water purification, 397
 - control in water supplies, 548
 - significance in drinking water, 239
- Impounded water at Bloomington Ind., 407

- Iowa City, Iowa, water company valuations, 138
- Iron, Chisholm, Minn., water system, 55
- Shelby, Ohio, water system, 193
- Joints, flexible, East river, N. Y., 165
- flexible, Portland, Me., 616
- Mains, cleaning in Charleston, S.C., 659
- cleaning in Kansas City, 369
- electrolysis, 116, 630
- extensions, 644, 645, 646, 648
- self-corrosion of iron and steel, 630
- Membership, committee report, 456
- Memphis, Tenn., water supply, 377
- Meters, Atlanta Water Department, experience, 15
- committee report, standard specifications, 273
- East Jersey Water Company, experience, 6
- Milwaukee, experience, 10
- multiple-family houses, 4, 6, 10, 11, 13, 14, 15, 16, 190
- San Francisco, experience, 4
- standardization, 637
- testing in series, 127
- Miami, Fla., damage of wells by sea water, 74
- Milwaukee, Wis., meters, multiple-family houses, 6
- Municipal water rates, 497
- New Jersey, license law for filter operators, 362
- Oil engine, development, 412
- Operators, licensing in New Jersey, 362
- course for water works, 627
- Peak demands, reservoir versus additional pumpage capacity, 463
- Pipes, *see* Mains,
 - casting, Pont-a-Mousson foundry, Committee report on revision of specifications, 654
 - repairs to flexible-jointed, East river, New York, 165
 - submarine pipe-line, Portland, Me., 616
- Pittsburgh District, acid pollution of water, 201, 541, 547, 662, 665
- Pollution of water, acid, Pittsburgh District rivers, 201, 541, 547, 662, 665
- by waste from hydrogen generating plant, 632
- Pollution units, effective dilution, 233, 270, 667, 671
- Pont-a-Mousson, pipe casting foundry, 165
- Portland, Me., submarine pipe line, 616
- Publication, Committee report, 454
- Pumping station, Cleveland, Ohio, 433
- Presidential address, 479
- Quality of water at different points on water system, 522
- Railroad, water supplies, waste prevention, 82
- Reservoir versus additional pumpage capacity for peak demands, 463
- Romance of water storage, 291, 300, 301, 305, 306, 307, 309, 311, 312, 314, 318, 661
- San Francisco, Cal., meters, multiple-family houses, 10
- Scoring of water supplies, 182, 187
- Secretary, annual report, 456
- financial statement, 458
- Self-cleansing underground water collecting system, 147
- Self-corrosion, iron and steel pipes, 630
- Sewage-sludge, filter-pressing, colloid chemistry, 486
- Shelby, Ohio, iron bearing water supply, 193
- Society affairs, 119, 283, 461, 550
- Specifications, cold water meters, disc type, 273
- revision for cast iron pipe, 654
- Standardization, brass goods, 48
- Council on, 535
- report of committee on official standards of water analysis, 532
- water meters, 637
- State supervision of water works, 337
- State versus local viewpoint on filter plant control, 356
- Steam heating system, municipal, 559
- Tampa, Fla., damage of wells by sea water, 74
- Tastes and odors from chlorination, 603
- Treasurer's report, 539
- Tropical water supplies, 157
- Typhoid fever, Greenville, Tenn., 132

- Valuation, water company, Iowa City, Iowa, 138
- Valves, double check, 222, 650, 651, 652
- Water purification, colloidal chemistry, 571
 - Evanston, Ill., 442
 - hydrogen-ion concentration, application, 397
 - licensing operators, New Jersey, 362
 - Whiting, Ind., 442
- Water rates,
 - municipal, 497
 - public utility service, 321
 - relative cost of public and private uses of water, 115
 - small cities, 38
- Water storage, Bloomington, Ind., 407
 - romance of, 291, 300, 301, 305, 306, 307, 309, 311, 312, 314, 318, 661
- Water supplies, Chicago, Ill., 402
 - depletion of ground water, 167
 - hydrogen-ion concentration, 239, 541
 - iron range, 55
 - iron in Shelby, Ohio, 193
 - Memphis, Tenn., 377
- Water supplies, pollution by waste from hydrogen generating plant, 632
 - pollution in Pittsburgh District, 201, 541, 547, 662, 665
 - popularizing, 110
 - quality at different points on water system, 522
 - Quebec, 75
 - scoring, 182, 187
 - self-cleansing underground, 147
 - tastes and odors from chlorination, 603
- Water waste, prevention on railroads, 82
 - in Detroit, 583, 672
- Water works, business end, 17
 - Chisholm, iron range water, 55
 - Council Grove, Kan., life notes and sale, 91
 - course for operators, 627
 - information, 271
 - state supervision, 337
- Wells, damage by sea water, 59
 - Eastbourne, England, experience, 71
 - Miami, Fla., experience, 74
 - Tampa Water Works Co., experience, 74
- Whiting, Ind., filtration plant, 442

AUTHOR INDEX

- ACKERMAN, J. WALTER, double check valves on water supplies, 650
what is the proper size meter for multiple-family houses? 4
- ALLEMAN, GELLERT, electrolysis, 116
- AMSBURY, F. C., state supervision of water works, 345
- BANKSON, E. E., (with D. E. Davis and C. A. Finley), municipal water rates, 497
- BARTOW, EDWARD, (with A. S. Behrman), pollution of a stream by waste from a hydrogen generating plant, 632
- BASS, FREDERICK H., a short course for water works operators, 627
- BEHRMAN, A. S., (with Edward Bartow), pollution of a stream by waste from a hydrogen generating plant, 632
- BILLINGS, LLOYD C., (with Walter A. Sperry), tastes and odors from chlorination, 603
- BLANCHARD, R. K., the standardization of water meters—disk type, 637
- BOHMANN, H. P., meters for multiple-family houses, 10
- BROWN, C. ARTHUR, romance of water storage, 314
- BRUSH, WILLIAM W., extensions of water mains, 645
meters for multiple-family houses, 13
- BURGESS, PHILIP, experiences with iron in the public water supply at Shelby, Ohio, 193
- BURNHAM, H. A., development of the F. M. double check valve as a safeguard for public water supplies, 222
- CAPEN, CHARLES H., JR., the licensing of operators for purification plants in the state of New Jersey, 362
- CHESTER, JOHN N., Memphis water works, 377
meters for multiple-family houses, 11
standardization of brass goods, 53
water supplies in Quebec, 78
- CHRISTMAN, J. N. H., division pumping station at Cleveland, Ohio, and its operation, 433
- CLARK, H. W., romance of water storage, 305
- CLEMENS, O. E., the business end of the water works, 17
- COPELAND, WM. R., (with John Arthur Wilson and Henry Mills Heisig), the application of colloid chemistry to the filter-pressing of sewage sludge, 486
- DANIELS, F. E., acid pollution of water in the Pittsburgh District, 662
- DAVIS, D. E., (with E. E. Bankson and C. A. Finley), municipal water rates, 497
- DAVIS, D. E., water supply of Memphis, Tenn., 377
- DAVIS, E. E., double check valves on water supplies, 652
- DITTOE, W. H., romance of water storage, 307
- DIVEN, JOHN M., romance of water storage, 311
standardization of brass goods, 53
- DUNHAM, H. F., meters for multiple-family houses, 13
wells damaged by sea water, 72
- DUNLAP, JOHN H., valuation of Iowa City water company based on present and pre-war costs, 138
- EDWARDS, W. R., meters for multiple-family houses, 6
- ELLIOTT, G. A., meters for multiple-family houses, 4
- ELLMS, J. W., (with A. G. Levy and L. A. Marshall), rate of solution of sulphate of aluminum, 426
- ELLMS, J. W., romance of water storage, 300
- EMERSON, C. A., romance of water storage, 312
- ERICSON, JOHN, glimpses at the past and future of the Chicago water supply, 402
- FENKELL, GEORGE H., waste of water in Detroit, Mich., 583
- FINLEY, C. A., (with E. E. Bankson and D. E. Davis), municipal water rates, 497

- FLINN, ALFRED DOUGLAS, self-corrosion of iron and steel pipes, 630
- FOREMAN, CHARLES S., water main cleaning in Kansas city, Mo., 369
- FRENCH, D. W., meters for multiple-family houses, 190
- FRENCH, E. V., committee on private fire protection services, 218
- GARRATT, J. E., testing water meters in series, 127
- GIBSON, J. E., cleaning water mains, 659
- GILKISON, GEORGE F., application of copper sulphate to basin walls for control of algae, 88
- GOODELL, JOHN M., practical water works information, 271
- GORE, WILLIAM, wells damaged by sea water, 71
- GRAHAM, J. W., laying and repairing submarine pipe line at Portland, Me., 616
- GREENFIELD, R. E., hydrogen-ion concentration and its application to water purification, 397
- GREELEY, SAMUEL A., operation of the water filtration plants at Evanston, Ill., and Whiting, Ind., 442
- GRISWOLD, DON M., tropical water supplies, 157
- GWINN, DOW R., double check valves on water supplies, 652
extensions of water mains, 644
state supervision of water works, 346, 354
- HARRUB, C. N., water borne typhoid fever at Greenville, Tenn., 132
- HAYDOCK, CHARLES, pollution of river water in Pittsburgh District, 541
railroad water waste prevention, 87
- HEISIG, HENRY MILLS, (with John Arthur Wilson and Wm. R. Copeland), the application of colloid chemistry to the filter-pressing of sewage sludge, 486
- HERING, RUDOLPH, wells damaged by sea water, 74
- HEYMANN, J. A., (with A. Massink), significance of hydrogen-ion concentration in drinking water and particularly for the business of water supply, 239
- HODGMAN, BURT B., cleaning water mains, 660
- HORTON, ROBERT E., depletion of ground-water supplies, 167
- HORTON, THEODORE, romance of water storage, 301
- JENSEN, J. CHRIS., state supervision of water works, 348
- JOHNSON, GEORGE A., effective dilution as a pollution unit, 270, 671
romance of water storage, 191
- JONES, WM. A., waste of water in Detroit, 672
- KAISER, H. W., municipal steam heating system at Cleveland, Ohio., 559
- KEELER, H. E., state supervision of water works, 346
- KNOWLES, C. R., railroad water waste prevention, 82
- LAFRENIERE, THEO. J., statistics of the water supplies of the province of Quebec, 75
- LEISEN, T. A., extensions of water mains, 648
- LEOPOLD, F. B., some experience in the development of the oil engine, 412
- LEVINE, MAX, further observations on the eosin-methylene blue agar, 151
- LEVY, A. G., (with J. W. Ellms and L. A. Marshall), rate of solution of sulphate of aluminum, 426
- LITTLE, BEEKMAN C.,
presidential address, 479
relief from coal shortage, 1
- LOCHRIDGE, E. E., romance of water storage, 306
- MCDONNELL, ROBERT E., popularizing water, 110
- MCVOY, J. W., extensions of water mains, 646
state supervision of water works, 353
- McFARLAND, CHESTER, R., wells damaged by sea water, 74
- MARSHALL, L. A., (with J. W. Ellms and A. G. Levy), rate of solution of sulphate of aluminum, 426
- MASON, W. P., romance of water storage, 661
wells damaged by sea water, 59
- MASSINK, A., (with J. A. Heymann), significance of hydrogen-ion concentration in drinking water and particularly for the business of water supply, 239
- MATTHEWS, J. N., state supervision of water works, 350
- MAURY, DABNEY H., state supervision of water works, 349
- MAXWELL, D. H., impounded water at Bloomington, Ind., 407
- MESSER, RICHARD, romance of water storage, 309

- METCALF, LEONARD, relative costs of public and private uses of water 115
wells damaged by sea water, 73
- MILLER, WALTER E., relative cost of public and private use of water 115
- MONFORT, W. F., control of hydrogen-ion concentration, 548
- MORSE, ROBERT B., romance of water storage, 318
state versus local viewpoint on filter plant control, 356
- MUELLER, ADOLPH, meters for multiple-family houses, 16
standardization of brass goods, 48
- PINCUS, SOL, effective dilution as a pollution unit, 667
- POWELL, SHEPPARD T., the quality of water at different points on a water system, 522
- PRINCE, GEORGE, I., self-cleansing underground water collecting system, 147
- QUAYLE, L. A., a reservoir versus additional pumpage capacity for supplying peak demands, 463
- RAYMOND, WM. G. value versus investment as a basis for utility service rates, 27
- ROBERTS, T. P., pollution of river water in Pittsburgh District, 547
- RODMAN, GEORGE E., repairs to a flexible-jointed pipe under the East river to Blackwells island, 165
- ROOS, C. M., state supervision of water works, 337
- ROSENTHAL, HELMAN, overcoming difficulties with crustacea in filter beds, 530
- SHAW, WALTER A., establishing rates for service rendered by public utilities by contract, 321
state supervision of water works 354
- SMITH, W. Z., meters for multiple-family houses, 15
- SPELLER, F. N., acid pollution of water in Pittsburgh District, 665
- SPERRY, WALTER A., (with Lloyd C. Billings), tastes and odors from chlorination, 603
- STEIN, MILTON, F., scoring of water supplies, 182
some notes on colloidal chemistry and water purification, 571
- SULLIVAN, C. J., an iron range water system: Chisholm, 55
- SULLIVAN, WILLIAM, F., meters for multiple-family houses, 14
- TRIBUS, LOUIS L., life notes and sale, water system at Council Grove, Kansas, 91
- WALLACE, R. B., state supervision of water works, 347
- WELLS, WM. FIRTH, effective dilution as a pollution unit, 233
scoring of water supplies, 187
- WHIPPLE, GEORGE C., pipe casting at Pont-a-Mousson, 161
- WILSON, JOHN, water rates in small cities and villages, 38
- WILSON, JOHN ARTHUR, (with Wm. R. Copeland and Henry Mills Heisig), the application of colloid chemistry to the filter-pressing of sewage sludge, 486
- WOLMAN, ABEL, the small plant operator as scientist, 359
- WYNNE-ROBERTS, R. O., water supplies in Quebec, 79
- YOUNG, C. M. pollution of river water in the Pittsburgh District, 201

